



May 27, 2007

MEMORANDUM

SUBJECT: Review of Analytical Data
TO: Carl Brickner
Environmental Scientist
USEPA Region 9 Quality Assurance Office (PMD-3)
75 Hawthorne Street
San Francisco, CA 94105-3901

FROM: Jana Dawson
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Chantilly, VA 20151-1101

Attached are comments resulting from review of the following analytical data:

SITE:	Omega Chemical
CERCLIS ID NO.:	Not Available
CASE NO.:	R06S72
SDG NO(S).:	06255C
SAMPLE NO.:	3 Air Samples and 1 Air Blank Sample
COLLECTION DATE(S):	September 8, 2006
LABORATORY:	USEPA Region 9 Laboratory, Richmond CA
ANALYSES:	Volatile Organic Compound Analysis in Air and Soil Vapor by Region 9 Laboratory Standard Operating Procedure(s) 311 Rev. 0, 312 Rev. 3 and USEPA Method TO15
REVIEWER(S):	Kimberly M. Gould Staff Consultant TechLaw, Inc.

If there are any questions, please contact Kimberly M. Gould via telephone at 304-830-1436 or via e-mail at kgould@techlawinc.com.

Attachment(s)

USEPA Project Officer Attention:	Rejected Data:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Estimated Data:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Sampling Issues:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

DATA VALIDATION REPORT

SITE: Omega Chemical
CERCLIS ID NO.: Not Available
CASE NO.: R06S72
SDG NO(S).: 06255C
LABORATORY: USEPA Region 9 Laboratory, Richmond CA
REVIEWER(S): Kimberly M. Gould
Staff Consultant
TechLaw, Inc.
DATE: May 27, 2007

I. Case Summary**Sample Information:**

Sample Numbers: OC1-EB1-G-3-66, OC1-BSO-G-0-67, OC1-BAA-G-0-68,
and OC1-MNB-G-0-69
Concentration and Matrix: Air
Analysis: Volatile Organic Compound Analysis
SOW/SOP: Volatile Organic Compound Analysis in Air and Soil Vapor
by USEPA Region 9 Laboratory Standard Operating
Procedure(s) 311, Rev. 0, 312 Rev. 3

Compendium of Methods for the Determination of Toxic
Organic Compounds in Ambient Air -- Second Edition
(EPA/625/R-96/010b, January 1999)

Collection Dates: September 8, 2006
Sample Receipt Dates: September 12, 2006
Analysis Dates: September 15, 2006 and September 16, 2006

Field QC Samples:

Field Blank (FB): None
Equipment Blank (EB1): OC1-EB1-G-3-66
Equipment Blank (EB2): None
Equipment Blank (EB3): None
Background Sample (BG): None
Field Duplicate Pair (D1): None
Field Duplicate Pair (D2): None
Field Duplicate Pair (D3): None

Method Blanks and Associated Samples:

B6I0075-BLK1 (9/15/06): OC1-EB1-G-3-66, OC1-BSO-G-0-67, OC1-BAA-G-0-68,
and OC1-MNB-G-0-69

Tables:

- 1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions

USEPA Project Officer Attention:

Rejected Data: No results were rejected in this SDG.
Estimated Data: Trans-1,3-dichloropropene and Freon results were qualified as estimated
(UJ) in this SDG.
Sampling Issues: No sampling issues were associated with this SDG.

Additional Comments:

This data validation report was prepared in accordance with laboratory SOPs and by adhering to guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (CLP NFGs) (EPA-540/R-99-008, October 1999).

The following method was also referenced:

Compendium of Methods for the Determination of Toxic Organic Compounds in
Ambient Air -- Second Edition (EPA/625/R-96/010b, January 1999)

II. Validation Summary

	<u>Acceptable</u>	<u>Comment</u>
Holding Times and Sample Preservation	Yes	
GC/MS Performance	Yes	
Calibration(s)	No	A
System Performance	Yes	
Laboratory Blank(s)	Yes	
Laboratory Control Sample(s)	No	B, C
Duplicate Sample(s)	Yes	
Compound Identification	Yes	D
Compound Quantitation	Yes	
Field QC	Yes	

III. Validity and Comments

- A) The second source calibration verification (SCV) percent difference (%D) result for trans-1,3-dichloropropene (-67 %D) was outside of the SOP QC limits of 30 %D. All sample results are estimated (UJ) for low LCS recovery, therefore no additional is required.
- B) The laboratory did not use the laboratory control sample (LCS) quality control (QC) limits of 57.5 - 134 %R (percent recovery) for bromomethane set forth in the applicable SOP, but utilized the QC limits of 57.8 - 134 %R when determining if recoveries were acceptable. All applicable LCS %R results were acceptable when compared to either set of QC limits.
- C) Laboratory control sample %R results for trichlorofluoromethane (138 %R; QC limits 61.4 - 132 %R), freon-113 (136 %R; QC limits 59.7 - 132 %R), trans-1,3-dichloropropene (43 %R; QC limits 44.5 - 159 %R) and 1,3-dichlorobenzene (134 %R; QC limits 58.4 - 130 %R) were outside of the referenced SOP QC limits. Compounds exhibiting %R above the higher range of the QC limits were not reported in three of the client samples and required no further action. Freon-113 was reported in sample OC1-BSO-G-0-67 and was qualified as estimated (J). The result for trans-1,3-dichloropropene was below the lower range of the QC limits and the compound was not reported in any of the client samples. The non-detected results for trans-1,3-dichloropropene are qualified (UJ) in all samples. Sample qualifications are listed as follows:
- Freon 113 is estimated (J) in sample OC1-BSO-G-0-67
 - trans-1,3-dichloropropene is estimated (UJ) in all samples.
- D) Acetone was reported as a tentatively identified compound (TIC) with an estimated concentration of 110 ppbv in sample OC1-MNB-G-069 and has been qualified as estimated as a tentative identification (NJ) by the data reviewer.

Case Number: SDG 06255C TABLE 1A - ANALYTICAL RESULTS WITH
 Site: Omega Chemical OU1 QUALIFICATIONS
 Laboratory: USEPA Region IX Laboratory, Richmond CA
 Reviewer: Kimberly Gould
 Date: 27-May-07
 Units: ppbv

Qualifiers: U indicates that the analyte was analyzed for but not detected above the reported sample quantitation limit
 J indicates that the reported value is estimated R indicates that the reported value is rejected
 NJ indicates that the reported value is estimated and a tentatively identified compound

Station Location	Equipment Blank				OC1-BAA-G-0-68		OC1-MNB-G-0-69	
Sample ID	OC1-EB1-G-3-66		OC1-BSO-G-4-67		0609032-03		0609032-04	
Lab Sample ID	0609032-01		0609032-02		09/08/06		09/08/06	
Date of Collection	09/08/06		09/08/06		09/08/06		09/08/06	
Dilution Factor	4.98		2.65		3.23		2.72	
Analyte	Result	Q	Result	Q	Result	Q	Result	Q
Dichlorodifluoromethane	5	U	2.6	U	3.2	U	2.7	U
1,2-Dichlorotetrafluoroethane	5	U	2.6	U	3.2	U	2.7	U
Chloromethane	5	U	2.6	U	3.2	U	2.7	U
Vinyl chloride	5	U	2.6	U	3.2	U	2.7	U
Bromomethane	5	U	2.6	U	3.2	U	2.7	U
Chloroethane	5	U	2.6	U	3.2	U	2.7	U
Trichlorofluoromethane	5	U	2.6	U	3.2	U	2.7	U
Dichloromethane	5	U	2.6	U	3.2	U	2.7	U
1,1-Dichloroethene	5	U	4.4		3.2	U	2.7	U
Methylene chloride	5	U	2.6	U	3.2	U	2.7	U
1,1-Dichloroethane	5	U	2.6	U	3.2	U	2.7	U
cis-1,2-Dichloroethene	5	U	2.6	U	3.2	U	2.7	U
Chloroform	5	U	2.6	U	3.2	U	2.7	U
1,1,1-Trichloroethane	5	U	2.6	U	3.2	U	2.7	U
Benzene	5	U	2.6	U	3.2	U	2.7	U
1,2-Dichloroethane	5	U	2.6	U	3.2	U	2.7	U
Carbon tetrachloride	5	U	2.6	U	3.2	U	2.7	U
Trichloroethene	5	U	2.6	U	3.2	U	2.7	U
1,2-Dichloropropane	5	U	2.6	U	3.2	U	2.7	U
cis-1,3-Dichloropropene	5	U	2.6	U	3.2	U	2.7	U
trans-1,3-Dichloropropene	5	UJ	2.6	UJ	3.2	UJ	2.7	UJ
1,1,2-Trichloroethane	5	U	2.6	U	3.2	U	2.7	U
Toluene	5	U	2.7		4.7		2.7	U
Tetrachloroethene	5	U	5.4		3.2	U	2.7	U
Freon-113	5	U	1.7	J	3.2	U	2.7	U
1,2-Dibromoethane (EDB)	5	U	2.6	U	3.2	U	2.7	U
Chlorobenzene	5	U	2.6	U	3.2	U	2.7	U
Ethylbenzene	5	U	2.6	U	3.2	U	2.7	U
m & p-Xylene	5	U	2.6	U	3.2	U	2.7	U
o-Xylene	5	U	2.6	U	3.2	U	2.7	U
Styrene	5	U	2.6	U	3.2	U	2.7	U
Hexachlorobutadiene	5	U	2.6	U	3.2	U	2.7	U
1,1,2,2-Tetrachloroethane	5	U	2.6	U	3.2	U	2.7	U
1,3,5-Trimethylbenzene	5	U	2.6	U	3.2	U	2.7	U
1,2,4-Trimethylbenzene	5	U	2.6	U	3.2	U	2.7	U
1,3-Dichlorobenzene	5	U	2.6	U	3.2	U	2.7	U
1,4-Dichlorobenzene	5	U	2.6	U	3.2	U	2.7	U
1,2-Dichlorobenzene	5	U	2.6	U	3.2	U	2.7	U
1,2,4-Trichlorobenzene	5	U	2.6	U	3.2	U	2.7	U
Acetone (Tentative Identification)	Not Reported		Not Reported		Not Reported		110	NJ

QL - Laboratory Quantitation Limit.

Table 1B. Data Qualifier Definitions

The following data qualifier definitions are based upon the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (CLP NFGs) (EPA-540/R-99-008, October 1999) and have been modified to comply with EPA Region IX requirements.

No qualifiers Indicate the data are acceptable both qualitatively and quantitatively.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
L	Indicates results which fall below the Laboratory Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the limits of detection.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.